

# Hull

& associates, inc.

February 28, 2011

Mr. Gary Greulich  
New Jersey Department of Environmental Protection  
Northern Regional Office  
7 Ridgedale Avenue  
Cedar Knolls, NJ 07927

RE: Remedial Action Progress Report No. 6 for the Retail Redevelopment Area Portion of the Former General Motors (GM) Linden Assembly Plant, 1016 West Edgar Road, Linden, Union County, New Jersey 07036; DUK059.701.0041.

Dear Mr. Greulich:

On May 26, 2009, the New Jersey Department of Environmental Protection (NJDEP) approved the New Jersey Remedial Action Workplan and RCRA Corrective Measures Proposal Addendum No. 1 (RAWP) for the Retail Redevelopment Area of the Former GM Linden Assembly Plant (Site; SRP PI# 014755; EA ID# SUB090001; BFO File Number: 20-09-24). The May 26, 2009 approval letter requested a Remedial Action Progress Report for the Retail Redevelopment Area on/by November 30, 2009. Subsequent reports are submitted on a quarterly basis.

This letter constitutes Remedial Action Progress Report No. 6 for the Retail Redevelopment Area. Hull & Associates, Inc. (Hull) has prepared this report on behalf of Linden Development LLC (Linden Development) to summarize remedial activities completed on the Site between December 1, 2010 and February 28, 2011.

Requirements, according to N.J.A.C. 7:26E-6.6, are shown below in ***bold italics***, with Hull/Linden Development's update following. The report certification required by N.J.A.C. 7:26E-1.5 is included in Attachment A.

1. ***NJDEP requires a description of each planned remedial action***
  - i. ***scheduled to be initiated or completed within the reporting period***
  - ii. ***actually initiated or completed during the reporting period; and***
  - iii. ***scheduled but not initiated or not completed during the reporting period, including the reasons for the noncompliance with the approved schedule.***

#### Soil

As outlined in the approved RAWP, the remedial activities for soils on the Retail Redevelopment Area consist of the following:

- a. Establishing deed restrictions or environmental covenants to maintain commercial/industrial land use at the Site;



- b. Regrading the site to achieve the grade necessary to support the proposed redevelopment;
- c. Constructing building slabs, parking areas and roadways and placing one foot of clean soil over geotextile fabric in future greenspaces to preclude direct contact exposures to future receptor populations and/or provide cover to historical fill material; and
- d. Surveying to demonstrate that all areas are covered with engineering controls (e.g., building slabs, parking areas and roadways) or one foot of clean soil.

These remedial activities are directly related to construction activities associated with the future redevelopment at the Site which are dependent upon finalization of agreements with end users. Linden Development has been working throughout the reporting period to finalize agreements with several end users that will ultimately occupy various portions of the Site. Given that end user agreements have not been finalized, the construction activities described in the RAWP have not yet been initiated.

During the reporting period, Linden Development imported structural fill materials from off-site sources for use during the redevelopment consistent with the RAWP and the Revised Soil and Concrete Reuse Proposal (Revision 1.0) approved by NJDEP. Materials imported prior to and during the reporting period are summarized in Table 1.

Linden Development performed additional sampling within the proposed Walmart parcel as part of internal due diligence requirements for Walmart ground lease negotiations. These additional sampling activities are summarized below.

#### Walmart-Related Sampling Activities

Initial Walmart-related soil and soil gas sampling activities were conducted between July 16 and July 22, 2010. Additional sampling was conducted in mid-November to further evaluate soil gas findings from the July 2010 activities. Preliminary results of the sampling were discussed with the NJDEP Case Manager, Mr. Gary Greulich, during a project update meeting on December 7, 2010, and a report summarizing the overall investigation findings was submitted to NJDEP in January 2011. Based on the results to date, Mr. Greulich requested shallow groundwater sampling within a portion of the Walmart parcel around soil gas sampling location WSG-3. That groundwater sampling is anticipated to be conducted in late-February or early-March 2010 following approval of the proposed sampling locations.

#### Groundwater

As outlined in the approved RAWP, remedial actions related to groundwater underlying the Retail Redevelopment Area do not appear to be necessary. However, sporadic historical concentrations of lead in limited monitoring wells have exceeded groundwater quality criteria at the Site, as observed in previous groundwater sampling data. As a result, the NJDEP may consider that an indeterminate Classification Exception Area (CEA) is necessary due to these sporadic exceedances and the presence of historical fill at the Site.

Based on discussions with Mr. Greulich conducted since November 2009, a final determination has not been made on the necessity of an indeterminate CEA. However, if ultimately required, the indeterminate CEA will be established by NJDEP as part of finalizing

the Site NFA and will include the overburden aquifer within the Site boundaries. As discussed on November 18, 2009 and reiterated during ongoing quarterly meetings, Mr. Greulich currently maintains the information necessary to establish the indeterminate CEA (if ultimately deemed necessary) and no additional submittals by Linden Development are required.

Storm Sewer (AOI-18)

Remedial activities associated with AOI-18 are complete, as documented in Remedial Action Progress Report No. 1 (November 2009).

**2. NJDEP requires discussion of problems and delays in the implementation of the RAWP, which should include proposals for corrections.**

As discussed above, remedial activities are directly related to construction activities associated with the future redevelopment at the Site which are dependent upon finalization of agreements with end users. Given current economic conditions, the construction activities described in the RAWP will not be implemented until redevelopment deals with end users are finalized.

Linden Development is continuing to pursue finalization of agreements with several end users for the Retail Redevelopment Area. In the interim, conditions at the Site are stable given that GM's original cover types (asphalt, building pads, etc.) remain intact.

**3. NJDEP requires proposals for a deviation from, or modification to, the approved RAWP.**

No deviations from, or modifications to, the approved RAWP are planned or required at this time.

As discussed during in previous quarterly reports, Hull and Linden Development conducted initial discussions with Gary Greulich on August 24, 2010 regarding potential modifications to engineering control designs within the portion of the Site proposed for the Lowe's development. The potential modifications include using clean fill material below future concrete slabs as the engineering control for direct contact exposures, rather than the concrete slabs themselves as currently outlined in the approved RAWP. Based on the August 24, 2010 discussion, the potential modifications will be acceptable to NJDEP if they are requested. If the modifications are ultimately desired, Linden Development will provide a written request and seek NJDEP's formal approval to implement the modifications prior to finalizing site work for the Lowe's parcel.

**4. NJDEP requires submittal of a revised schedule pursuant to N.J.A.C. 7:26E-6.5, to reflect the changes as noted in 1 through 3 above.**

In anticipation of finalizing agreements with end users in the immediate future, Linden Development plans to conduct initial site earth work and grading during the next reporting period. Details of the schedule are currently being finalized. General anticipated timeframes are as follows:

Activity	Anticipated Timeframe
Select concrete slab and asphalt removal	April 2011 - May 2011
Grading and placement of imported materials	May 2011 - June 2011
Underground utility construction	June 2011 - August 2011

The schedule for constructing engineering controls will be dependent on finalizing end user agreements. Linden Development will provide additional details as activities progress.

**5. NJDEP requires an updated status of all permit applications relative to the critical path schedule.**

The permits required for initiation of the remedial activities are summarized below.

Permit/Approval Type	Status	Notes
Planning Board Approval	Approved 1/9/09	Site plan approved by City of Linden Planning Board
NPDES Permit (Storm Water)	Approved 9/16/09	NPDES Permit No. 0088323
Soil Conservation District	Approved 9/16/09	Approved by Somerset-Union Conservation District

**6. NJDEP requires a listing of each remedial action to be performed during the next reporting period.**

In anticipation of finalizing agreements with end users in the immediate future, Linden Development plans to conduct initial site earth work and grading during the next reporting period. Details of the schedule are currently being finalized. General anticipated timeframes are as follows:

Activity	Anticipated Timeframe
Select concrete slab and asphalt removal	April 2011 - May 2011
Grading and placement of imported materials	May 2011 - June 2011
Underground utility construction	June 2011 - August 2011

**7. NJDEP requires costs of each remedial action**

- i. Annual summary of all remedial action costs incurred to date; and
- ii. Revised cost estimate for remedial actions remaining to be performed.

Given that significant construction and remedial implementation has not yet commenced, no remedial costs have been accrued, with the exception of minor costs for the storm sewer cleaning (i.e., approximately \$7,000) reported in Remedial Action Progress Report No. 1.

The cost estimate for completing remedial activities remains consistent with that presented in the RAWP (i.e., approximately \$7,500,000 for earthwork and construction of engineering controls).

**8. NJDEP requires a tabulation of sampling results (according to N.J.A.C. 7:26E-3.13(c)3) received during the reporting period and a summary of the data and any conclusions, presented in a format consistent with N.J.A.C. 7:26E-4.8.**

During the reporting period, Linden Development imported structural fill materials from off-site sources for use during the redevelopment consistent with the RAWP and the Revised Soil and Concrete Reuse Proposal (Revision 1.0) approved by NJDEP. Soil analytical results associated with the materials imported during this reporting period are tabulated in Attachment B.

As discussed previously, Linden Development conducted additional sampling on behalf of Walmart as part of ground lease negotiations between those parties. The results of the Walmart-related sampling were submitted to NJDEP in January 2011 via a report entitled, *Draft Supplemental Soil and Soil Gas Investigation of the Proposed Walmart Parcel* (December 21, 2010).

**9. NJDEP requires a summary of active groundwater remedial actions**

- i. groundwater elevation maps with groundwater flow shown immediately before and during active groundwater remediation;*
- ii. graphs depicting changes in concentrations over time for all impacted wells as well as all down-gradient wells;*
- iii. summary of volume of water treated since last reporting period and the total volume treated since active remedial action commenced; and*
- iv. Summary of groundwater contamination, indicating either that contamination remains above applicable standards (include a proposal detailing additional remedial actions) or that concentrations are below applicable standards.*

As outlined in the approved RAWP, remedial actions related to groundwater underlying the Retail Redevelopment Area do not appear to be necessary (see discussion under item 1).

**10. NJDEP requires a summary of natural remediation groundwater remedial actions**

- i. Summary table of the groundwater monitoring results collected; and*
- ii. Conclusions whether data indicate that natural remediation is no longer appropriate (must then also submit a revised RAWP)*

As outlined in the approved RAWP, remedial actions related to groundwater underlying the Retail Redevelopment Area do not appear to be necessary (see discussion under item 1).

**11. NJDEP requires a description of all wastes generated as a result of the remedial action**

- i. Tabulation of waste characterization samples collected, including the physical state of the material, volume, number of samples, analyses performed and results;*
- ii. Listing of types and quantities of waste generated by the remedial action during the reporting period as well as to date;*
- iii. Name of the disposal facility used;*
- iv. Transporters' dates of disposal; and*
- v. Manifest numbers of each waste shipment.*

No wastes were generated during the reporting period.

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**12. NJDEP requires that any additional support documentation that is available also be provided (photos, etc.).**

Given that the majority of the remedial activities have not yet been implemented, no additional support documentation is available.

The next scheduled remedial action progress report will include remedial actions completed between March 1 and May 31, 2011. Please feel free to contact Bill Dennis at (412) 446-0315 with any questions regarding the update provided herein.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill Dennis III". The signature is stylized with a large, looped "B" and "D".

Bill Dennis  
Senior Project Manager

**Attachments**

ct: Brian Strohl – Linden Development, LLC  
Clifford Ng – U.S. EPA Region 2

## TABLES

**LINDEN DEVELOPMENT LLC SITE (FORMER GM LINDEN ASSEMBLY PLANT)  
1016 WEST EDGAR ROAD, LINDEN, NJ  
QUARTERLY REPORT NO. 6 - RETAIL REDEVELOPMENT AREA**

**TABLE 1  
SUMMARY OF FILL MATERIALS IMPORTED AS OF FEBRUARY 2011**

Import Date	Source	Supplier	Quantity	Material Type	Anticipated Site Use
<b>Soils and Crushed Concrete - Imported Prior to Current Reporting Period</b>					
Pre-February 2010	City of Rahway, NJ - Former firing range soil stockpile	City of Rahway, NJ	800 cy	Soils	Structural fill to be covered by engineering controls
Pre-February 2010	City of Linden, NJ - 2300 S. Wood Street - soil stockpile from City's Parks Dept.	City of Linden, NJ	2,865 cy	Soils	Structural fill to be covered by engineering controls
April / May 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	2,973 cy	Soils	Structural fill to be covered by engineering controls
April / May 2010	Newark Public Schools Stadium - excess soils from construction project	AWT Environmental Services, Inc.	3,397 cy	Soils	Structural fill to be covered by engineering controls
May 2010	Newark Brick Tower - Residential Tower Demolition - processed backfill material	DEMREX and Altchem Environmental	15,680 cy	Soils/Crushed Concrete	Structural fill to be covered by engineering controls
June 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	1,178 cy	Soils	Structural fill to be covered by engineering controls
June 2010	City of Linden, NJ - Library Site - excess soils from construction project	City of Linden, NJ	2,300 cy	Soils	Structural fill to be covered by engineering controls
July 2010	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	1,516 cy	Soils	Structural fill to be covered by engineering controls
8/24/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	658 cy	Soils	Structural fill to be covered by engineering controls
9/23/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	567 cy	Soils	Structural fill to be covered by engineering controls
9/27/2010	Weldon Materials - crushed stone (virgin source)	Weldon Materials	142 cy	Crushed Stone	Unrestricted (Virgin Source Material)
9/29/2010	Weldon Materials - crushed stone (virgin source)	Weldon Materials	55 cy	Crushed Stone	Unrestricted (Virgin Source Material)
10/5/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	699 cy	Soils	Structural fill to be covered by engineering controls
10/19/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	655 cy	Soils	Structural fill to be covered by engineering controls
		<b>Subtotal:</b>	<b>33,485 cy</b>		

LINDEN DEVELOPMENT LLC SITE (FORMER GM LINDEN ASSEMBLY PLANT)  
1016 WEST EDGAR ROAD, LINDEN, NJ  
QUARTERLY REPORT NO. 6 - RETAIL REDEVELOPMENT AREA

TABLE 1  
SUMMARY OF FILL MATERIALS IMPORTED AS OF FEBRUARY 2011

Import Date	Source	Supplier	Quantity	Material Type	Anticipated Site Use
Soils and Crushed Concrete - Imported During Current Reporting Period					
12/15/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	328 cy	Soils	Structural fill to be covered by engineering controls
12/16/10	New 121st. Police Precinct -970 Sanders Street, Staten Island, NY - excess soils from construction project	Pure Earth, Inc.	165 cy	Soils	Structural fill to be covered by engineering controls
		Subtotal:	493 cy		
	Total for Soils and Crushed Concrete Imported to Date:		33,978 cy		
Asphalt Millings - Imported Prior to Current Reporting Period					
Pre-February 2010	City of Linden, NJ - Residential Streets - asphalt millings	City of Linden, NJ	1,434 cy	Asphalt Millings	Subgrade material for future paved areas
		Subtotal:	1,434 cy		
Asphalt Millings - Imported During Current Reporting Period					
NA	None during current reporting period	NA	0		
		Subtotal:	0 cy		
	Total for Asphalt Millings Imported to Date:		1,434 cy		

## **ATTACHMENT A**

### **Report Certification**

**Certification**

**Linden Development, LLC  
ISRA Case Number E20040531**

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Date: 2/23/11

Linden Development, LLC

By:

William J. DeBoer  
William J. DeBoer, Executive V.P.

Sworn to and subscribed to before  
me on this 23rd day  
of February, 2011

Deena E. Griest  
Notary



Deena E. Griest  
Notary Public-State of Ohio  
My Commission Expires  
May 29, 2012

**ATTACHMENT B**

**Analytical Results for Samples of Fill Material  
Imported During this Reporting Period**

New 121st Police Precinct - 970 Sanders Street, Staten Island, NY  
Excess Soils from Construction Project  
Table B-1 - Summary of Analytical Results (Detected Analytes Only)

Analyte	Units	Sample ID	TP-1C		TP-1G (4')		TP-2C		TP-2G (4')		TP-3C		TP-3G (4.5')		TP-4C		TP-4G (4.5')		TP-6C		TP-6G (4.5')		TP-5C		TP-5G (5')		TP-7C		TP-7G (4.5')		TP-8C		TP-8G (4')	
		Sample Date	12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/23/2009		12/24/2009		12/24/2009		12/24/2009		12/24/2009		12/24/2009		12/24/2009	
		CasNo		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
VOCs																																		
Acetone	PPB	67-64-1	NT		95	C	NT		5.8	U	NT		5.5	U	NT		5.6	U	NT		5.9	U	NT		6	U	NT		5.8	U	NT		5.7	U
Methylene chloride	PPB	75-09-2	NT		37	B	NT		29	B	NT		22	B	NT		21	B	NT		38	B	NT		15	B	NT		23	B	NT		35	B
SVOCs																																		
2-Methylnaphthalene	PPB	91-57-6	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		100	J	NT		94	J	NT		130	U	NT	
Acenaphthene	PPB	83-32-9	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		540		NT		130	U	NT		130	U	NT	
Acenaphthylene	PPB	208-96-8	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		22	J	NT		130	U	NT		130	U	NT	
Anthracene	PPB	120-12-7	130	U	NT		50	J	NT		270	U	NT		130	U	NT		130	U	NT		530		NT		130	U	NT		130	U	NT	
Benzo(a)anthracene	PPB	56-55-3	18	J	NT		350		NT		270	U	NT		130	U	NT		130	U	NT		890		NT		130	U	NT		53	J	NT	
Benzo(a)pyrene	PPB	50-32-8	19	J	NT		280		NT		270	U	NT		130	U	NT		130	U	NT		810		NT		130	U	NT		62	J	NT	
Benzo(b)fluoranthene	PPB	205-99-2	130	U	NT		410		NT		270	U	NT		130	U	NT		130	U	NT		1100		NT		130	U	NT		79	J	NT	
Benzo(g,h,i)perylene	PPB	191-24-2	130	U	NT		250	J	NT		270	U	NT		130	U	NT		130	U	NT		540		NT		130	U	NT		64	J	NT	
Benzo(k)fluoranthene	PPB	207-08-9	130	U	NT		110	J	NT		270	U	NT		130	U	NT		130	U	NT		430		NT		130	U	NT		28	J	NT	
Bis(2-ethylhexyl)phthalate	PPB	117-81-7	130	U	NT		120	J	NT		270	U	NT		130	U	NT		130	U	NT		120	U	NT		29	J	NT		77	J	NT	
Butyl benzyl phthalate	PPB	85-68-7	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		120	U	NT		98	J	NT		130	U	NT	
Carbazole	PPB	86-74-8	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		220		NT		130	U	NT		130	U	NT	
Chrysene	PPB	218-01-9	130	U	NT		280		NT		270	U	NT		130	U	NT		130	U	NT		830		NT		130	U	NT		71	J	NT	
Dibenzo(a,h)anthracene	PPB	53-70-3	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		160		NT		130	U	NT		130	U	NT	
Diethyl phthalate	PPB	84-66-2	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		120	U	NT		28	J	NT		130	U	NT	
Di-n-butyl phthalate	PPB	84-74-2	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		120	U	NT		24	J	NT		130	U	NT	
Fluoranthene	PPB	206-44-0	130	U	NT		500		NT		270	U	NT		130	U	NT		130	U	NT		2400		NT		130	U	NT		96	J	NT	
Fluorene	PPB	86-73-7	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		480		NT		130	U	NT		130	U	NT	
Indeno(1,2,3-c,d)pyrene	PPB	193-39-5	130	U	NT		260		NT		270	U	NT		130	U	NT		130	U	NT		670		NT		130	U	NT		61	J	NT	
Naphthalene	PPB	91-20-3	130	U	NT		260	U	NT		270	U	NT		130	U	NT		130	U	NT		210		NT		43	J	NT		130	U	NT	
Phenanthrene	PPB	85-01-8	130	U	NT		190	J	NT		270	U	NT		130	U	NT		130	U	NT		1900		NT		130	U	NT		29	J	NT	
Pyrene	PPB	129-00-0	23	J	NT		450		NT		270	U	NT		130	U	NT		130	U	NT		1500		NT		130	U	NT		74	J	NT	
Pesticides																																		
4,4'-DDD	PPB	72-54-8	3		NT		5.2		NT		2.2	J		14		NT		2.2	U	NT		30		NT		1.9	J	NT		5.9		NT		
4,4'-DDE	PPB	72-55-9	2.1	U	NT		1.7	J	NT		2.3	U		2.5		NT		2.2	U	NT		4.3		NT		2.2	U	NT		2.2	U	NT		
4,4'-DDT	PPB	50-29-3	2.1	U	NT		2.1	U	NT		2.3	U		6.1		NT		2.2	U	NT		2.1	U	NT		2.2	U	NT		2.2	U	NT		
alpha-Chlordane	PPB	5103-71-9	2.1	U	NT		4.4		NT		2.3	U	NT		2.2	U	NT		2.2	U	NT		2.1	U	NT		2.2	U	NT		2.2	U	NT	
gamma-Chlordane	PPB	5103-74-2	2.1	U	NT		0.89	J	NT		2.3	U	NT		2.2	U	NT		2.2	U	NT		2.1	U	NT		2.2	U	NT		2.2	U	NT	
Metals																																		
Aluminum	PPM	7429-90-5	6840		NT		5710		NT		5560		NT		5490		NT		5900		NT		4830		NT		6390		NT		4610		NT	
Arsenic	PPM	7440-38-2	3.93		NT		3.27		NT		3.62		NT		2.63		NT		2.29		NT		3.54		NT		3.93		NT		2.35		NT	
Barium	PPM	7440-39-3	40.5		NT		31.3		NT		31.2		NT		23.9		NT		25.2		NT		20.4		NT		34.4		NT		21.9		NT	
Calcium	PPM	7440-70-2	5710		NT		19000		NT		3020		NT		1200		NT		5670		NT		5230		NT		4590		NT		247		NT	
Chromium	PPM	7440-47-3	15.2		NT		10.9		NT		18.2		NT		8.8		NT		9.34		NT		9.19		NT		9.64		NT		8.41		NT	
Cobalt	PPM	7440-48-4	0.428	U	NT		0.43	U	NT		0.808		NT		0.401	U	NT		0.425	U	NT		0.395	U	NT		0.418	U	NT		0.412	U	NT	
Copper	PPM	7440-50-8	12.6		NT		13.9		NT		11.9		NT		7.84		NT		6.36		NT		13		NT		7.94		NT		6		NT	
Iron	PPM	7439-89-6	15800		NT		12700		NT		13500		NT		11100		NT		13000		NT		12400		NT		12200		NT		9040		NT	
Lead	PPM	7439-92-1	13.2		NT		13.4		NT		33.2		NT		6.35		NT		5.53		NT		17.5		NT		8.55		NT		4.61		NT	
Magnesium	PPM	7439-95-4	4680		NT		9390		NT		2370		NT		1920		NT		4810		NT		3720		NT		1580		NT		1320		NT	
Manganese	PPM	7439-96-5	204		NT		174		NT		377		NT		113		NT		96.7		NT		113		NT		138		NT		124		NT	
Mercury	PPM	7439-97-6	0.0113	U	NT		0.0189		NT		0.039		NT		0.0102	U	NT		0.0111	U	NT		0.0287		NT		0.0176		NT		0.0101	U	NT	
Nickel	PPM	7440-02-0	12.1		NT		10.4		NT		25.4		NT		11.5		NT		7.45		NT		11.8		NT		8.81		NT		7.25		NT	
Potassium	PPM	7440-09-7	1780		NT		1690		NT		1140		NT		1170		NT		1270		NT		1150		NT		1260		NT		972		NT	
Sodium	PPM	7440-23-5	265		NT		206		NT		232		NT		274		NT		224		NT		313		NT		679		NT		332		NT	
Vanadium	PPM	7440-62-2	22.9		NT		21.6		NT		18.8		NT		14.5		NT		16.4		NT		17.4		NT		18.1		NT		13.5		NT	
Zinc	PPM	7440-66-6	29.9		NT		31.4		NT		62.1		NT		24.7		NT		21.6		NT		30.6		NT		26		NT		20.8		NT	
Wet Chemistry																																		
Chromium, Trivalent	PPM	16065-83-1	15.2		NT		10.9		NT		18.2		NT		8.8		NT		9.34		NT		9.19		NT		9.64		NT		8.41		NT	
Percent Moisture	wt%		13.2		14.5		10.9		15.2		15.5		9.41		13.6		11.5		14.5		17		9.63		16		13.2		13.7		13		12.3	
pH	pH Unit		7.95	H	NT		8.09	H	NT		7.92	H	NT		7.98	H	NT		7.86	H	NT		8.35		NT		6.85		NT		7.68		NT	
TCLP Metals																																		
Barium	PPM	7440-39-3	1.15		NT		0.964		NT		0.912		NT		0.83		NT		0.938		NT		0.941		NT		0.993		NT		0.842		NT	
Lead	PPM	7439-92-1	0.731		NT		0.0681		NT		0.12		NT		0.0329	J	NT		0.00598	J	NT		0.139		NT		0.056		NT		0.00826	J	NT	

Notes:  
C - Calibration %RSD/%D exceeded for non-COC analytes  
H - Holding times for preparation or analysis exceeded  
NT - Not tested  
U - Indicates that the compound was analyzed but not detected  
B - Analyte detected in the associated in the method blank  
J - Analyte detected below quantitation limits

**New 121st Police Precinct - 970 Sanders Street, Staten Island, NY**  
**Excess Soils from Construction Project**

Analyte	Units	Sample ID	TP-9C		TP-9G (4')		TP-10C		TP-10G (1.5')																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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